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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,427	01/28/2004	Tunc Koray Palazoglu	297/164/2	7231
25297 75	590 12/14/2005		EXAMINER	
•	ILSON & TAYLOR,	AURORA, REENA		
3100 TOWER BLVD SUITE 1400			ART UNIT	PAPER NUMBER
DURHAM, NC 27707			2862	
			DATE MAILED: 12/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
	10/767,427	PALAZOGLU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Reena Aurora	2862			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on This action is FINAL. 2b)⊠ This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1 - 274 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1 - 274 are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 19 July 2004 is/are: a) ☐ Applicant may not request that any objection to the or	vn from consideration. or election requirement. r. ☑ accepted or b) ☐ objected to b				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1 97 and 129 131, drawn to a magnetically detectable particle for generating a temperature measurement for or a continuous stream of material, the particle including a first and second magnet and an adhesive having a release temperature, classified in class 324, subclass 204.
- II. Claims 98 128, drawn to a method of generating an environmental condition measurement in an environmental condition measurement in an environment, classified in class 324, subclass 228.
- III. Claims 132 153, drawn to a device for generating a temperature measurement for a batch including a detectable particle and a carrier particle including an interior cavity holding the detectable particle, and the thermal protection provided by the carrier particle to the interior cavity is greater than or equivalent to conservative thermal behavior of a target particle at its cold spot under similar heating conditions, classified in class 219, subclass 385.
- IV. Claims 154 201 and 230 274, drawn to a method of providing a carrier particle with conservative behavior, the method including determining material and dimensions for a carrier particle design that substantially correspond to one or more conservative behavior characteristic of the target particle, classified in class 209, subclass 127.2.

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V. Claims 202 - 229, drawn to a system for aiding the design of a carrier particle with conservative behavior characteristics including a memory and a spatial simulation engine, classified in class 374, subclass 163.

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The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as apparatus and product made. The inventions in this relationship are distinct if either or both of the following can be shown: (1) that the apparatus as claimed is not an obvious apparatus for making the product and the apparatus can be used for making a different product or (2) that the product as claimed can be made by another and materially different apparatus (MPEP § 806.05(g)). In this case the product as claimed can be used by a materially different process by using optical or electrical detectable particles.
- 3. Inventions I and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention III has separate utility such as the thermal protection provided by the carrier particle to the interior cavity is greater than or equivalent to conservative thermal behavior. See MPEP § 806.05(d).
- 4. Inventions I and IV are related as apparatus and product made. The inventions in this relationship are distinct if either or both of the following can be shown: (1) that the apparatus as claimed is not an obvious apparatus for making the product and the apparatus can be used for making a different product or (2) that the product as claimed can be made by another and materially different apparatus (MPEP § 806.05(g)). In this

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case the product as claimed can be used by a materially different process by using optical or electrical detectable particles.

- 5. Inventions I and V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention V has separate utility such as using a spatial simulation engine to simulate material and dimensions of a carrier particle design for matching the conservative behavior characteristics of the target particle. See MPEP § 806.05(d).
- 6. Inventions III and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed can be used by a materially different process such as the interior cavity of the carrier particle can be protected by any appropriate shielding means.
- 7. Inventions II and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention II has separate utility such as an environment condition can be measured in any environment. See MPEP § 806.05(d).
- 8. Inventions II and V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are

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shown to be separately usable. In the instant case, invention V has separate utility such as using a spatial simulation engine to simulate material and dimensions of a carrier particle design for matching the conservative behavior characteristics of the target particle. See MPEP § 806.05(d).

- 9. Inventions III and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed can be used by a materially different process such as the interior cavity of the carrier particle can be protected by any appropriate shielding means.
- 10. Inventions III and V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention III has separate utility such as the thermal protection provided by the carrier particle to the interior cavity is greater than or equivalent to conservative thermal behavior. See MPEP § 806.05(d).
- 11. Inventions IV and V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention V has separate utility such as using a spatial simulation engine to simulate material and dimensions of a carrier particle design for matching the conservative behavior characteristics of the target particle. See MPEP § 806.05(d).

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12. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

- 13. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group (II or III or IV or V) and vice versa, restriction for examination purposes as indicated is proper.
- 14. A telephone call was made to Aries Taylor on 12/06/05 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

15. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reena Aurora whose telephone number is 571-272-2263. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, E. Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Reena Aurora